Biomedical Informatics Grand Rounds
Wednesday, March 30th, 2022 3:00 pm – 4:00 pm

Opportunities and Challenges with Big Data and Artificial Intelligence for Biomedical Research and Healthcare Delivery

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Remote Access
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Bio: Ms. Patricia Kovatch is the Dean for Scientific Computing and Data Science at the Icahn School of Medicine at Mount Sinai (ISMMS), founding the division in October 2011. In her work at ISMMS and in her national and international collaborations, she emphasizes a collaborative approach, partnering computational and data experts with basic and translational scientists to tackle complex scientific questions to better diagnose and treat disease. To these ends, she established a scalable and sustainable high-performance computing infrastructure and scientific support staff, and oversees the Mount Sinai Data Warehouse that houses clinical records on over 11 million patients and clinical database groups. She serves as a PI for several NIH equipment grants. She provides vision and strategy for data science and sharing at ISMMS, and nationally as the Core Director for the Data Repository and Management Core for NIEHS's Human Health Exposure Analysis Resource, and as the Data Sharing Lead for Sinai's Cancer Immune Monitoring and Analysis Core, funded by NCI. She was awarded a training grant for the Community Research Education and Engagement for Data Science. To leverage her experience at the intersection of multiple domains with her passion for researcher productivity, she works to build bridges between researchers and technologists with her NCI, NIH, DOE and NSF colleagues through avenues such as joint workshops at the annual International Conference for High Performance Computing, Networking, Storage, and Analysis. She previously served as the director of an institute for computational science for the National Science Foundation at a Department of Energy national laboratory.

Abstract: Artificial Intelligence has changed many aspects of life today, including healthcare delivery. In this talk, I will provide an overview of the Icahn School of Medicine at Mount Sinai's vision for AI. I will cover some of the barriers and potential benefits to AI as well as a short discussion of our ethical approach. I will also review our shared computational and data ecosystem, enabling AI for biomedical research.

Educational Objects: Upon completion, participants should be able to:
- Learn about opportunities and challenges with AI.
- Learn how one academic medical center is defining principles for evaluating AI.
- Learn how one academic medical center is creating a shared computational and data ecosystem for AI.

Disclosure Statement: The faculty and planners have no relevant financial relationship with ineligible companies whose primary business is producing, marketing, selling, re-selling, or distributing health care products used by or on patients.

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